

ORIGINAL ARTICLE

Depressive symptoms, depression, and the effect of biologic therapy among patients in Psoriasis Longitudinal Assessment and Registry (PSOLAR)

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Background: Patients with psoriasis are at an increased risk for depression. However, the impact of treatment on this risk is unclear.

Objective: Evaluate the incidence and impact of treatment on depression among patients with moderate-to-severe psoriasis.

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Methods: We defined a study population within the Psoriasis Longitudinal Assessment and Registry and measured the incidence of depressive symptoms (Hospital Anxiety and Depression Scale–Depression score ≥ 8) and adverse events (AEs) of depression within cohorts receiving biologics, conventional systemic therapies, or phototherapy. Patients were evaluated at approximately 6-month intervals. Multivariate modeling determined the impact of treatment on risk.

Results: The incidence rates of depressive symptoms were 3.01 per 100 patient-years (PYs) (95% confidence interval [CI], 2.73–3.32), 5.85 per 100 PYs (95% CI, 4.29–7.97), and 5.70 per 100 PYs (95% CI, 4.58–7.10) for biologics, phototherapy, and conventional therapy, respectively. Compared with conventional therapy, biologics reduced the risk for depressive symptoms (hazard ratio, 0.76; 95% CI, 0.59–0.98), whereas phototherapy did not (hazard ratio, 1.05; 95% CI, 0.71–1.54). The incidence rates for AEs of depression were 0.21 per 100 PYs (95% CI, 0.15–0.31) for biologics, 0.55 per 100 PYs (95% CI, 0.21–1.47) for phototherapy, and 0.14 per 100 PYs (95% CI, 0.03–0.55) for conventional therapy; the fact that there were too few events (37 AEs) precluded modeling.

Limitations: Incomplete capture of depression and confounders in the patients on registry.

Conclusion: Compared with conventional therapy, biologics appear to be associated with a lower incidence of depressive symptoms among patients with psoriasis. (J Am Acad Dermatol <http://dx.doi.org/10.1016/j.jaad.2017.08.051>.)

Key words: biologic therapy; depression; phototherapy; PSOLAR; psoriasis; systemic therapy.

Several studies have documented an increased risk for depression and suicidality among patients with psoriasis. Cross-sectional studies with relatively small sample sizes have noted a high prevalence of depression ($>60\%$) and suicidality ($>7\%$) among patients with psoriasis.^{1,2} A large cohort study in the General Practice Research Database found an increased risk for depression, anxiety, and suicidality among patients with psoriasis; depression and suicidality risks were higher for patients with severe disease.³ Another large cohort analysis, using data from the Nurses' Health Study, found an increased risk for depression in women with psoriasis and psoriatic arthritis.⁴ A recent meta-analysis reported similar findings, indicating that patients with psoriasis were at least 1.5 times more likely to experience depression than patients without psoriasis.⁵

Depressive symptoms, as opposed to depression, are assessed by the Hospital Anxiety and Depression Scale–Depression (HADS-D) (Table I). Data from clinical trials support a reduction in depressive symptoms with psoriasis treatment. In the pivotal clinical trials for adalimumab,

etanercept, ustekinumab, and infliximab, depressive symptoms were decreased.^{6–10}

However, beyond clinical trials, there is a paucity of well-controlled or real-world data addressing the effect of systemic therapy on comorbid depression and suicidality among patients with psoriasis. Herein we report findings on the prevalence, incidence, and impact of systemic therapy on comorbid depression and depressive symptoms among patients in Psoriasis Longitudinal Assessment and Registry (PSOLAR).¹¹

CAPSULE SUMMARY

- Patients with psoriasis have an increased risk for depression/suicidality.
- Biologic agents for psoriasis were associated with a decreased incidence of depressive symptoms versus conventional systemic therapies in the real-world Psoriasis Longitudinal Assessment and Registry.
- Further exploration of the relationship between biologics and depression among patients with psoriasis is warranted to optimize treatment management.

METHODS

Study design

A full description of PSOLAR has been reported previously.^{11,12} Briefly, PSOLAR is a prospective, longitudinal, disease-based registry designed to collect safety, efficacy, and health outcomes data from approximately 12,000 patients with psoriasis in 16 countries who are receiving, or are eligible to receive, conventional systemic or biologic therapies. All patients provided written informed consent before the start of the study, and an institutional review board or ethics committee approved the registry protocol at participating sites. This cohort analysis used data obtained through August 23, 2015.

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